



# VITA 67

High Density & High Performance RF  
Addition to the **OpenVPX** Platform

## FEATURES

The foundational coaxial interconnect for RF on VPX platforms

- Standardized microwave interconnect for convenience
- Cable assembly daughtercard modules that mate to backplane adapters
- Floating SMPM coaxial contacts ensure excellent RF performance in any mating condition



VITA 67.1 (3U) and VITA 67.2 (6U)

## APPLICATIONS

- High-reliability, high-density for aerospace & defense applications
- SIGINT, EWR, ground base station & communication systems, avionics, radar systems
- Air Transport Racks (ATRs) without Rear Transition Modules (RTMs) or limited speed through RTM
- Available in 3U (4 position) and 6U (8 position) formats
- Designed for side-by-side implementation with VITA 46 hardware

## BENEFITS

- Robust and rugged high speed cabled solution
- MIL-STD 810 for shock and vibration
- Minimal footprint of I/O slot
- Rear panel interface enables quick disconnect & replacement of card, leading to a significant reduction in Mean-Time-To-Repair (MTTR) when compared to front panel interfaces
- Utilizes existing and proven SMPM interfaces
- Unique SV connector retention mechanism offers significant ease of assembly/disassembly into daughtercard module over competitor designs



Motherboard Module

**SMPM Male to Male Adapter**  
SMPM male on backside of board

**SMPM Female Cable Connector**  
Configurable to any  $\varnothing.086''$  or smaller cable type



Daughtercard Module



# VITA 67

High Density & High Performance RF  
Addition to the **OpenVPX** Platform

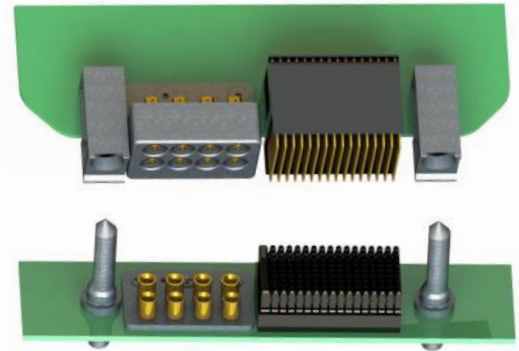
## BASED ON INDUSTRY STANDARD SMPM INTERFACES

- Proven performance in Military and Commercial Applications
- Ideal for High Frequency and High Density Applications
- Lightweight and versatile, can be cabled to most  $\varnothing.086''$  and smaller diameter coaxial cable types

## SMPM ELECTRICAL/MECHANICAL INTERFACE SPECIFICATIONS

Return Loss	-14dB max
Insertion Loss	$0.12 * \sqrt{F(\text{GHz})}$ min, DC to 26.5 GHz
Isolation	> 100 dB, DC to 26.5 GHz
Axial Travel	.079" min
Radial Float	$\pm .010''$ min
Engage Force	2.5 lbs (typical per contact)

Note: Figures are per mated pair.



Example: VITA 67.2 (6U) Connector with Digital Connector and Guide Pins

## STANDARD PART NUMBERS LISTED ON VITA 67 SPEC

<p>VITA 67.1 4 Position, Motherboard Multiposition SMPM Module <b>SV Part: SF1132-6037</b></p> 	<p>VITA 67.2 8 Position, Motherboard Multiposition SMPM Module <b>SV Part: SF1132-6036</b></p> 
<p>VITA 67.1 SMPM Plug-in Card 4 Position Coaxial Module <b>SV Part: SF9321-60015</b></p> 	<p>VITA 67.2 SMPM Plug-in Card 8 Position Coaxial Module <b>SV Part: SF9321-60013</b></p> 
<p>SMPM Contact <math>\varnothing.086''</math> and <math>\varnothing.047''</math> Cable <b>SV Part: 3221-40022 (.086)</b> <b>SV Part: 3221-40019 (.047)</b></p> 	<p>SMPM Removal Tool <b>SV Part: 500-32-022</b></p> 

Amphenol  
**SV MICROWAVE**<sup>®</sup>

[www.svmicrowave.com](http://www.svmicrowave.com)

